**IT Applications, Unit 4**

**Security and ethical considerations, Ch 8, p 294**

**EMERGING TECHNOLOGIES, CLOUD COMPUTING, P 305**

**The advantages and disadvantages of using cloud computing for storing, communicating and disposing of data and information.**

**What is cloud computing?**

1. **Provide a definition for cloud computing?**

Cloud computing refers to the online use of applications and storage.

**Implications for businesses**

1. **Distinguish between the following types of clouds:**
   1. **Public cloud**

In public cloud computing, a business can access web services via a third party who shares resources and cost on a utility basis. For example a business may pay a certain fee per month to access the service.

* 1. **Community cloud**

In community cloud computing, a group of organisations with simular needs seek to share the infrastructure. For example, a group of finance companies that band together to ensure that their cloud has a higher level of security it complies with policies that affect them.

* 1. **Hybrid cloud**

The business can access a number of cloud services in both a public and community environment.

* 1. **Private cloud**

Private cloud computing can be tailored to suit the individual company and have a higher level of security.

**ADVANTAGES AND DISADVANTAGES OF USING CLOUD COMPUTING**

From the text and also from the Articles:

“Guide to cloud computing”

“Steven Levy on the Perils of Cloud Computing”

Complete the following:

**Advantages**

1. **List the advantages of this type of computing.**

* Decreases the amount of software needed.
* Cost is related to the amount of usage not per user.
* Software updates occur within the cloud
* Less storage hardware needed
* Ensures that data is not lost in the event of a disaster
* Can be accessed from anywhere that has a strong internet connection
* If using for communication the business will not have to maintain an email server

**Disadvantages**

1. **List the disadvantages of cloud computing.**

* May need to install redundant internet connections to make sure that if one provider fails the other can still be used
* Major reliance on the internet connection
* Security is a bigger issue with passwords and usernames being used.